

Rat DDAH I MAGLSHP-SVPGRATHAVVRAPPESLCRHALRRSQGEEVDFARAERQHQLYVGVLGSKLG
Human DDAH I MAGLCHP-SAPGRATHAVVRALPESLCQHALRSAKGEEVDFARAERQHQLYVGVLGSKLG
Human DDAH II --MCTPGEGILGRCSHALIRGVPELASGEGAGAGLPALDLAKAQREHGVLGKLRQLG
LQVQLPADES LPDCVFVEDVAVVCEETALITRGAPSRRKEVDMMKALEKLQLNIVEM
LQVVELPADES LPDCVFVEDVAVVCEETALITRGAPSRRKEVDMMKALEKLQLNIVEM
LQLELPPEEESLPLGPLLGD TAVI QGD TALITRPWSPARRPEVDGVRKALQDLGLRIVEI
KDENATLDGGDVLFTGREFFVGLSKRTNQRGAELADTFKDYAVSTVPVADSLHLKSFC
KDENATLDGGDVLFTGREFFVGLSKRTNQRGAELADTFKDYAVSTVPVADSLHLKSFC
GDENATLDGTDVLF TGREFFVGLSKWTNHRGAELIVADTFRDFAVSTVPVSGPSHLRGLCG
MAGPNLIAIGSSESAAQKALKIMQMDSHRYDKLTVPDDMAANCIYLN--IPSKGHVLLHR
MAGPNLIAIGSSESAAQKALKIMQMDSHRYDKLTVPDDIAANCIYLN--IPNKGHVLLHR
MGGPRTVVAGSSDAAQKAVRAMA VTDHPYASLTL PDDAAADCLFLRPGLPGVPPFLLHR
TPEEYPESAKVYEKLKDHLI PVNSEMEKV DGLLTCCSVFINKKTD
TPEEYPESAKVYEKLKDHLI PVSMSELEKV DGLLTCCSVLINKKVDS
GGGDLPNSQEALQKLS DVTL VPFVSCSELEKAGAGLSSLCLVLSTRPHS

Figure 1

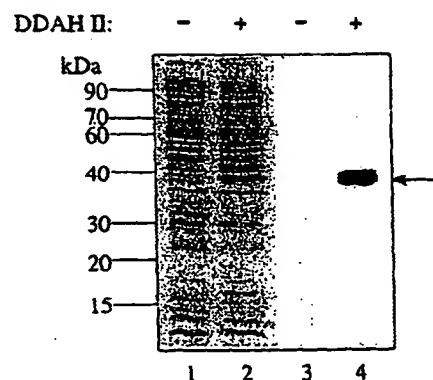


Figure 2

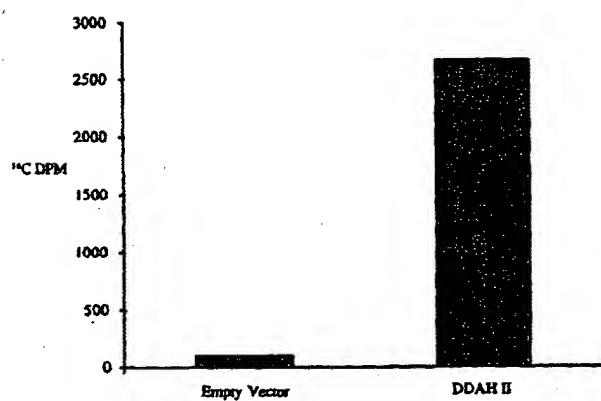


Figure 3

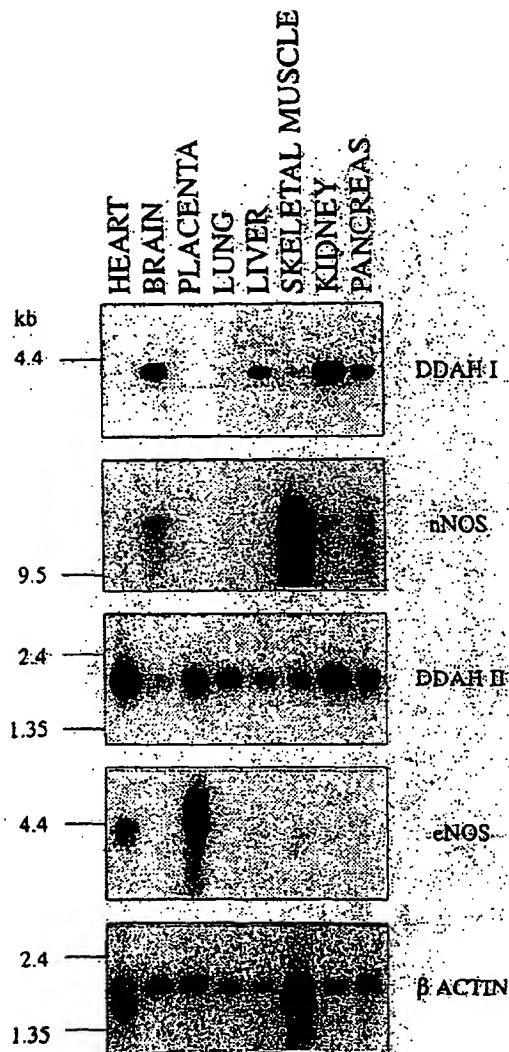


Figure 4

4/6

Human DDAH1 NATLDEGGIDVLFPTGR-EFFVGLSKRIN-ORGAEIILADTPKDVASTIVPVAD-G
 Human DDAH1 NATLDEGGIDVLFPTGR-EFFVGLSKRIN-HRGAEIIVADTFRDVASTIVPVSG-P
 P.P. Dein. NATLDEGGIDMPVGKGLIVLIGMGERTSRHAIGQIAQNLFKEGAEEKLIVAGLPKSRAMHLDIVTFSFCDRDLVTVPPVVK

Figure 5

SDDAH	VPSKRALVRRPSPRLAEGLV-----HVERSQVDRGLAL-QNDA
PADDAH	-----MFKHILARTPARSLVDGLTSS-----HLQKP-DYAKALEQERA
HDDAH	-----MAGLCHPSAFGRATHAVRALPESLCQRLBS-----AKGEE-DVVARAERQHOL
TDDAH	-----NTDSYVAARLGSABRTPKTRKYMTPPAFFAVAYAINTPMDVTAP-VDVQVAQAGMEH
 :	
SDDAH	YVEALG-AHMETLEVDPAEYCPSDFVVEDAVVV/KENVALITRPGAESRRAETAGVEEAV
PADDAH	YIRALQ-TCDVDTLLEPDERFDVSFVEDPVLTCSRCAITRPGAESRPGCTSIESTV
HDDAH I	YVGVLGSKLQLQVVELPADESPLDCVVFEDVAVVCEITALITRPGAPSRLKF/DMMKAL
TDDAH	LHQTYL-BLGRSVDLIEPIISGLPDMVYTAMGGFIADIAVVARIEFFERAGESRAYASIN
 :	
SDDAH	ARLG-CSVNIVVMEPGTILDGGDVLAIGDTIYVGRGORTNAAGVOOLIAAEPLGARVVAVP
PADDAH	QRFYPCVERIEAPOTVEAGDINMVQDFYIIGESARTNAECAROMIAILEXERGL6GSVVR
HDDAH I	EKLQINIVEMKDENAATLDGGDVLFQREFVYQLSKRTHQGAEILADTFIDY--AVSTVP
TDDAH	SSVG--YRPVTTREVNEQQGDLIAVGERVLAGYGFETDOR-AKAZIAAVLGLPVVSLELV
 :	
SDDAH	VSEVILHLKSAVTAL-PDGTVIGHPLTDVPS-----LPFRF-LPVPEE-SGAHVLLG
PADDAH	LEKVHLHETLALYL-EHHNLAAEPTVSKP-----EPQDFNIEIPPEESEAANCIVW
HDDAH I	VADGLHLKSFCSHAGPNSLAIQSSESQAALKINGQMSDERYDKLTVPDD--IAANCIYL
TDDAH	DPRFYHLDTALAVLDDHTIAYYPFAFSTAQECILS-ALFPDAIVVGSADAFVFGNAVSD
 :	
SDDAH	QSR-----LMAAASAPKTAELALDQ-BEPVLDIGEFEELEGCVTCLSVRLRELTD-
PADDAH	NER-----VIMPGYFPTREKJARLQ-YRVIEVDTSEYREYIDGCVCMSTRF-----
HDDAH I	NPNGKGVLLRPTPEEYPESAKVTEKLKDENLIPVSNSELKVDGLTCCSVLNLKIDS
TDDAH	GLO-----VVLVVAAMGFAAQIRANG-PEPVGVLSELLRGGGSVRCCITLEHP-----

Figure 6A

PaDeiminase	MSTEKTPLOVHSSEAGKLRKVMVCS POLAHQRLLPSNCDELLPDDVINVNQAKRDHPDFVT
PADDAH	-----
PaDeiminase	ENPERGIDVLEMENLITETIONPEAKWILDKITADSVGLGLTSKLSMLESLEPKMLA
PADDAH	-----MFKHILARTPARSLVDGLTSSHLQG-----KP-----
PaDeiminase	EYLIQGVAADDLPSAGEGANILIMYREYLQHSSPLLPP--LPNTQFTED-ITCWIYGGV
PADDAH	-----DYAKALEQERAQHOLQTCVDITLLEPDERFPDSVVEDPVLTCSRCAII
PaDeiminase	LNPWVWPARQETLLTTAIYKPHPEFANAEFEIINYGDPPDKORGSSITLEGGDNPNIGNGUV
PADDAH	TRPGAESRPGCTSIESTVORPT-----GKVERIEAPOTVEAGDINMVQDFY-RF
PaDeiminase	LIGNGERSSROAIGQVACSLIFAKGAERIVAVGLPKSRAAMHLDTVFSFCDRBLVTVPPE
PADDAH	YIGESARTNAECAROMIAILEXERGL6GSVVR-----EK-VLRLKTYGHAYLEHBNLLAGE
PaDeiminase	VVKETUPPSLRDPSSPVGMNSIRREKTYLLEVVAESLGLEKLRVVSITGNSFAAERSQND
PADDAH	FVS-K-----PE-----PQDFNIEIP-----EEESYA

Figure 6B

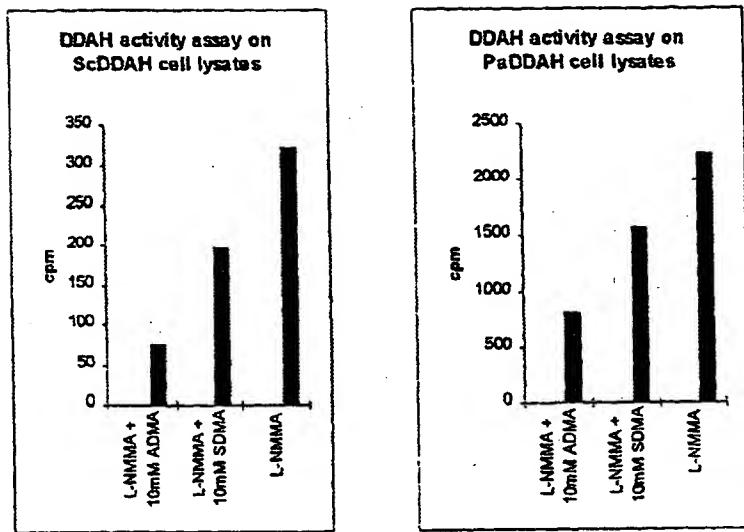


Figure 7